Quick Installation Guide
HALNy Ethernet Router
HLE-3GX-F



1 Safety guidance

1.1 Safety check

Before installing the device, you must check the following items.

1.1.1 Electric safety

- Ensure that there are no inflammable, conductive or moist objects around. Check whether the cables are aged and whether other electrical appliances are placed stably,
- check whether the alternating or direct input current is within the allowed range of the device, whether the polarity of the direct current is correct, and whether the earth line is properly connected.

1.1.2 Device position

- Because the running electric device easily generates heat, please ensure to place the device in a well-ventilated environment,
- avoid direct sunshine and do not place the device on a PC case,
- keep the device away from heat and water,
- check whether power supply is available. The input voltage fluctuation range must be smaller than 10%. The power plug should not share one socket with a hair drier, an iron or a refrigerator.

1.2 Safety caution

- Read the quick installation guide carefully before using the device,
- note all Cautions in the quick installation guide,
- do not use any accessory that does not belong to the device without prior consent of the manufacture, as it may cause fire or product damage,
- use the power adapter accompanied in the package,
- do not place any object on the device,
- keep the device dry, ventilated, rainproof and clean,
- during lightning weather, unplug the power plug and all connection cables, to protect the device against lightning,
- clean the device using a soft and dry cloth rather than liquid or atomizers. Power off the device before cleaning it,
- power off the idle device,

- keep the ventilation hole clean and prevent any object from dropping into the device through it. Otherwise, it may cause short circuit and further cause device damage or fire. Do not spray liquid on the surface of the device,
- do not open the case of the device, especially during device power-on,
- before plugging or unplugging the power, ensure that the power is off, thus avoiding surge,
- be careful when unplugging the power, as the transformer may be very hot,
- cover the optical interface with fiber interface cap when it is not in use. Avoid direct eye exposure to the laser emitted from the optical interface. Wear safety glasses if possible, to protect your eyes.

Caution:

Please read the above safety guidance carefully before device use. Users should assume responsibilities for any accidents due to incompliance with the above instructions.

2 Overview

This chapter mainly describes functions and the structure of the device.

2.1 Features and function

- Supports up to 1Gbps uplink/downlink data transmission rates,
- strong maintainability. Provide various statuses of LED indicators, to help troubleshooting.

2.1 Front panel

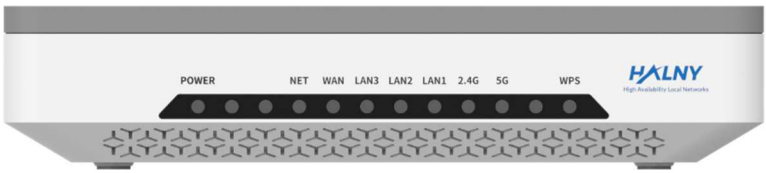


Fig1. Front panel

On the front panel a row of LEDs is placed. Those LEDs allows you to easily check the status of the device and it's interfaces.

LED	Kolor	Status	Opis
POWER	Green	On	Power is ON.
		Off	Power is OFF / Faulty PSU.
WAN	Green	On	Network access.
		Off	No network access.
LAN1-3	Green	On	Ethernet link up.
		Blinks	Data transmission.
		Off	Ethernet link down.
2.4G	Green	On	WiFi interfaces enabled.
5G		Blinks	Data transmission.
		Off	WiFi interfaces disabled.
WPS	Green	On	WPS enabled.
		Blinks	Pairing in progres.
		Off	WPS disabled.

Table 1.ONU LED indication table

LED	Kolor	Status	Opis
WPS	Green	On	Got WAN IP address successfully.
		Blink	Connecting with controller.
		Off	Device in bridged mode or no IP.

Table 2.ONU LED indication table for Easy Mesh agent mode

LED	Kolor	Status	Opis
2.4G	Green	On	The connection of Ethernet interface is normal.
		Blink	Initialization of adding a agent.
		Off	The connection of the Ethernet interface fails to establish.
5G		On	The connection of Ethernet interface is normal.
		Blink	Initialization of adding a agent.
		Off	The connection of the Ethernet interface fails to establish.
WPS		On	Pairing ok.
		Blink	Initialization of adding a agent.
		Off	Not activated/not triggered.

Table 3.ONU LED indication table for Easy Mesh contorller mode

2.2 Rear panel

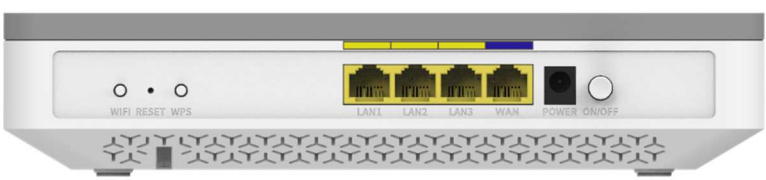


Fig2. Rear panel

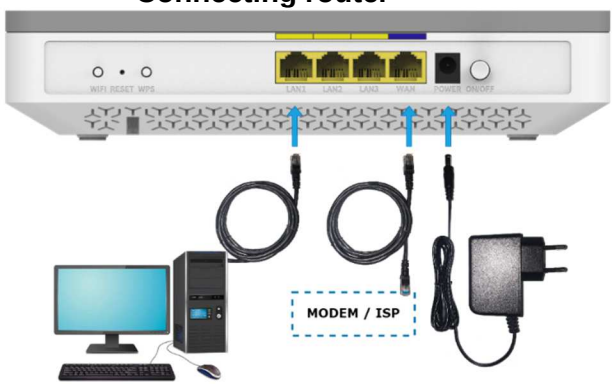
	Function
POWER	PSU socket.
ON/OFF	Device power ON/OFF button.
WAN	Ethernet socket (RJ45) (modem/router).
LAN1-3	Ethernet socket (RJ45) (client devices).
WPS	Hold for 5s to activate WPS If MESH is enabled, press for 10 seconds to activate MESH pairing. In MESH mode, WPS paring is disabled.
RESET	Hold for 30-40s to restore device to factory settings.
WIFI	Hold for 5s to activate/deactivate WiFi.

Table 4.Rear panel port description

3 Router installation

The chapter describes the required installation operations before you use the device for the first time.

Connecting router



3.1.1 Wiring connection and power on

1. Connect modem/router or Ethernet cable from your ISP to WAN port
2. You can connect an Ethernet devices to LAN1 … LAN3 sockets (ex. computer with wired NIC, printer, gaming console, set-top-box, TV, etc.)
3. Plug in the PSU plug to the POWER socket. Before you install the PSU please make sure the ON/OFF button is in OFF position
4. Connect the PSU to the power grid socket
5. Turn on the device by pressing the ON/OFF button.

4 Troubleshooting

Symptom	Solution
POWER LED is off	● Check whether the PSU connection is correct, ● check if PSU is working properly, ● check if POWER button is in ON position.
WAN LED is off	● Check whether the Ethernet cable is OK, ● check whether the Ethernet cable is plugged in, ● check whether the ISP device working properly, ● check whether ISP network is working properly.
LAN LED is off	● Check whether the device connected to LAN port is working properly and it's network interface is enabled, ● check whether the Ethernet cable is OK, ● check whether the Ethernet cable is plugged in.
2.4G LED is off	● The device is still booting, please wait up to 5 mins, ● WiFi 2.4G interface was disabled, please enable it.
5G LED is off	● The device is still booting, please wait up to 5 mins, ● WiFi 5G interface was disabled, please enable it.

5 Technical specification

Main technical specifications		
Standard	Ethernet	10/100/1000Mbps
WAN Throughput	Uplink	1Gbps
	Downlink	1Gbps
Interface	1 WAN port	RJ-45 10/100/1000Mbps auto-MDI/MDIX
	4 LAN ports	RJ-45 10/100/1000Mbps auto-MDI/MDIX
	WiFi 2.4Ghz	802.11n/ax (2T2R MIMO) 576Mbps
	WiFi 5Ghz	802.11ac/ax (2T2R MIMO) 1201Mbps
Physical characteristics and environment requirements		
Power adapter input		100V～240V AC，50Hz～60Hz
Whole-device power supply		12V DC，1.5A
Standard power consumption		<18W
Operating temperature		-5˚C～45˚C
Operating humidity		5%~95% (non-condensing)
Dimension		L x W x H：225mm x 143mm x 47mm
Weight		<500g

Additional information

Declaration of conformity (CE)

This device has been tested and found to comply with the stated standards which are required by the Council Directive of 2014/30/EU and Part 15, subpart B of FCC Rules. The device complies with this CE and FCC Declaration when the installation is done in accordance with the instruction and documentation. The importer don't take responsibility for any issues caused by improper use of the device.

The full document is on below web page and it is available in importer:

CE / warranty terms and conditions:

www.halny.com

Importer:

FIBRAIN Sp. z o.o
36-062 Zaczernie 190F (POLAND)
info@fibrain.pl
BDO: 000007477
FCC ID: 2AWIZHL4GXVF

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Recycling



This product bears the selective sorting symbol for Waste electrical and electronic equipment (WEEE). This means that this product must be handled according to European directive 2012/19/EU in order to be recycled or dismantled. This will minimize the negative effects on the environment and human health resulting from the possibility of the presence in the equipment substances, mixtures and hazardous components. A user can give the product to a competent recycling organization, to WEEE collection points or to a distributor (in accordance with local regulations).